Polycoat

Bitumen emulsion paint

Emulsified thixotropic flexible protective barrier to vapor transmission.

PRODUCT CONFORMITY
DUBAI GREEN BUILDING REGULATIONS
Certificate No. CL1 7020460

CHARACTERISTICS

- Resists the attack of salts like chlorides and sulphates that are present in the soil
- Easy to apply
- Cold applied
- Adheres to concrete, metal, wood, cork, etc.
- Can be applied in closed or confined spaces
- Water-based
- Versatile
- Anti-fungal
- Economical



DESCRIPTION

Polycoat is an emulsified thixotropic bitumen protective coating. The coating dries to form a black flexible protective film. The finished film forms a tough barrier to vapor transmission.

FIELDS OF APPLICATION

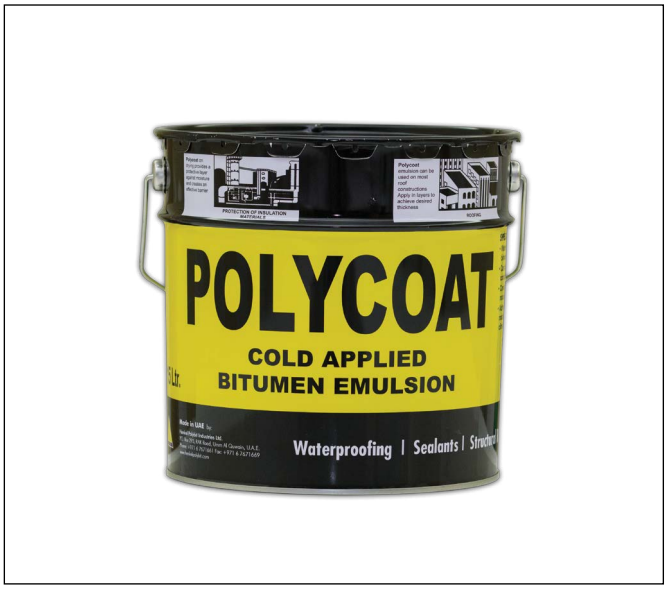
Polycoat is used for providing damproofing for below ground concrete structures which are above the water table. This can also be used as the protective coating for built-up roofing systems and other exposed surfaces. The coating is also used as a moisture vapor barrier on block works and concrete surfaces prior to cladding.

Application instructions

The application temperature should be between 5°C to 55°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the bitumen coating is as follows:

Surface preparation

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections and protrusions are to be removed and repaired. Structurally unsound and friable concrete must be removed and repaired with a suitable Polycrete* concrete repair mortar.



Priming

Primer is always recommended prior to coating as it not only penetrates into the concrete pores and seals the substrate. It also acts as an adhesion promoter for further coatings. The primer coat can be made in the site by diluting the same bitumen emulsion with 20% water. The primer may be applied by a brush, roller or airless spray. Allow the primer to dry before any further coats are applied. However, if the primer after application is left open for more than 24 hours after it becomes dry, clean the surface of any settled dust and apply a fresh coat of the primer.

Application

Stir the contents of the drum thoroughly prior to application to remove any sediment. The application can be done with a roller, brush or airless spray. Apply the coating at a coverage rate of 1-4 m^2/L/coat, depending on the dry film thickness required. For highly demanding situations, it is recommended to apply in multiple coats. Further coats shall be applied only after the previous coat dries off completely. However, the coverage depends on the smoothness and porosity of the substrate and the required thickness of the coating.

Quality for Professionals

Protection

The coating shall be protected from ongoing site activities and during backfilling from getting damaged by a 150 micron polyethylene sheet.

COVERAGE

Average dry film thickness of 125microns achieved when applied @4m²/L/coats, at required number of coats

STORAGE & SHELF LIFE

The drums and pails must be stored in a covered area, away from direct sunlight, UV and other sources of heat. The shelf life is up to 12 months when stored as per recommendations. Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life.

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn when handling the product. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidental swallowed, do not induce vomiting, but call for medical assistance immediately. Ensure that the container is available for medical attendant to examine any relevant instructions and content details.

SUPPLY

Polycoat	15L pail & 200L drum

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Form	Thick viscous liquid	-
Color	dark brown	-
Density, [g/cc]	1.02 ±0.02	ASTM D 2939
Solid content, [%]	40±5	ASTM D 2939
Firm set, [hours]	24	ASTM D 2939
Application temperature, [°C]	5 to 55	-
Service temp, [°C]	-5 to 75	-
VOC [g/l]	<50	ASTMD3960/ D2369

All values given are subject to 5-10% tolerance

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.
The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

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